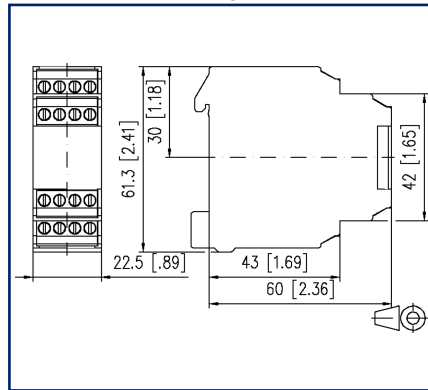


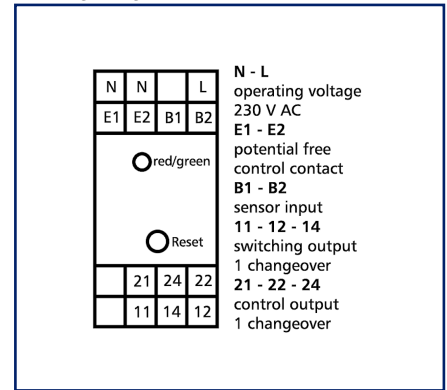
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The speed and V-belt monitor is used for monitoring the rotary movement (insufficient speed) of motor and V-belt driven shafts. Inductive proximity switches are used for capturing the speed. Pulses are generated by the sensor without contact by means of driven control cams, toothed wheels, segmented discs, metal signal flags or similar. The relay is activated when the operating voltage is applied. After start-up bridging has finished, the monitoring function is started on the E1 and E2 terminals by means of the power contactor of the drive. When the drive speed falls below the switch-off speed, the relay is deactivated. The fault message of the speed or V-belt monitor is reset by means of the reset function and by switching off the operating voltage.

Technical Data

| Supply | |
|--|--|
| Operating voltage | 230 V AC -10% ... +10% |
| Frequency range | 50 ... 60 Hz |
| Duty cycle relative | 100 % |
| Recovery time | 400 ms |
| Inputs | |
| Release time typical | 85 ms |
| Outputs | |
| Contacts | 2 changeover contacts |
| Contact material | AgNi |
| Switching voltage (max.) | 250 V |
| Continuous Current | 6 A |
| Switching frequency | 1200 switching cycles/h |
| Mechanical life | 1x10 ⁷ switching cycles |
| Electrical life | 1x10 ⁵ switching cycles |
| Indicator | green and red LED |
| Insulation coil - contact set | |
| Nominal voltage of the power supply system | 230 / 400 V AC |
| Overvoltage category | III II |
| Degree of pollution | 2 2 |
| Rated test voltage | 4 kV 2.5 kV |
| Type of insulation | basic insulation reinforced insulation |
| Housing | |
| Dimensions | |
| Dimension (W x H x D) | 22.5 mm x 61.3 mm x 60 mm |
| Dimension (W x H x D) | 0.886 in. x 2.413 in. x 2.362 in. |
| Weight | 70 g |
| Mounting style | Standard rail TH35 |
| Mounting position | any |
| Apposition | without distance |
| Connection type | Screw type terminal blocks |

Technical Data

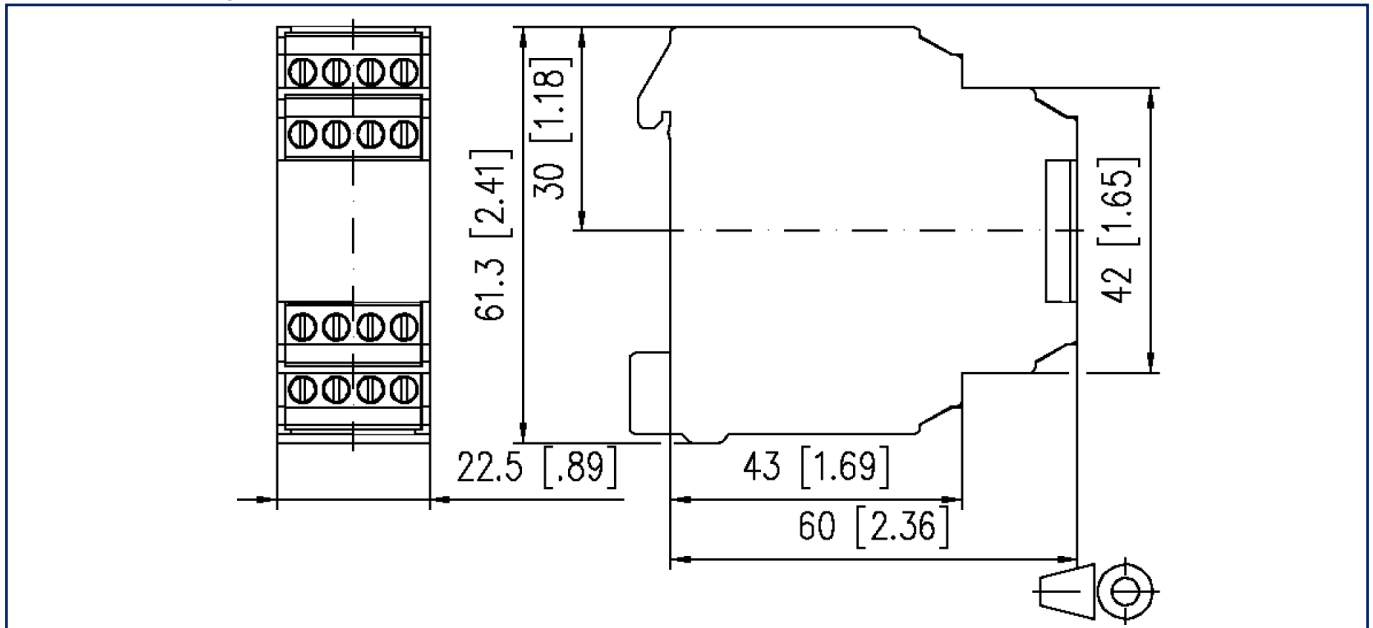
| Terminal blocks | |
|---|--|
| Wire cross section solid | 0.2 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section multi | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section with wire ferrule | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Screw torque (max.) | 0.5 Nm |
| Stripping length (min.) | 8 mm |
| Material | |
| Material - Housing | Polyamid 6.6 V0 |
| Color | gray |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers | Polyamid 6.6 V0 |
| Protection category according to IEC 60529 | |
| Protection category - housing (acc. to IEC 60529) | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |
| Temperature range | |
| Operating | |
| Temperature - Operating °C | 0 °C - 55 °C |
| Temperature - Operating °F | 32 °F - 131 °F |
| Storage | |
| Temperature - Storage °C | -20 °C - 70 °C |
| Temperature - Storage °F | -4 °F - 158 °F |
| Classifications | |
| ETIM 7.0 | EC001448 |
| ETIM 8.0 | EC001448 |
| ETIM 9.0 | EC001448 |

Accessories

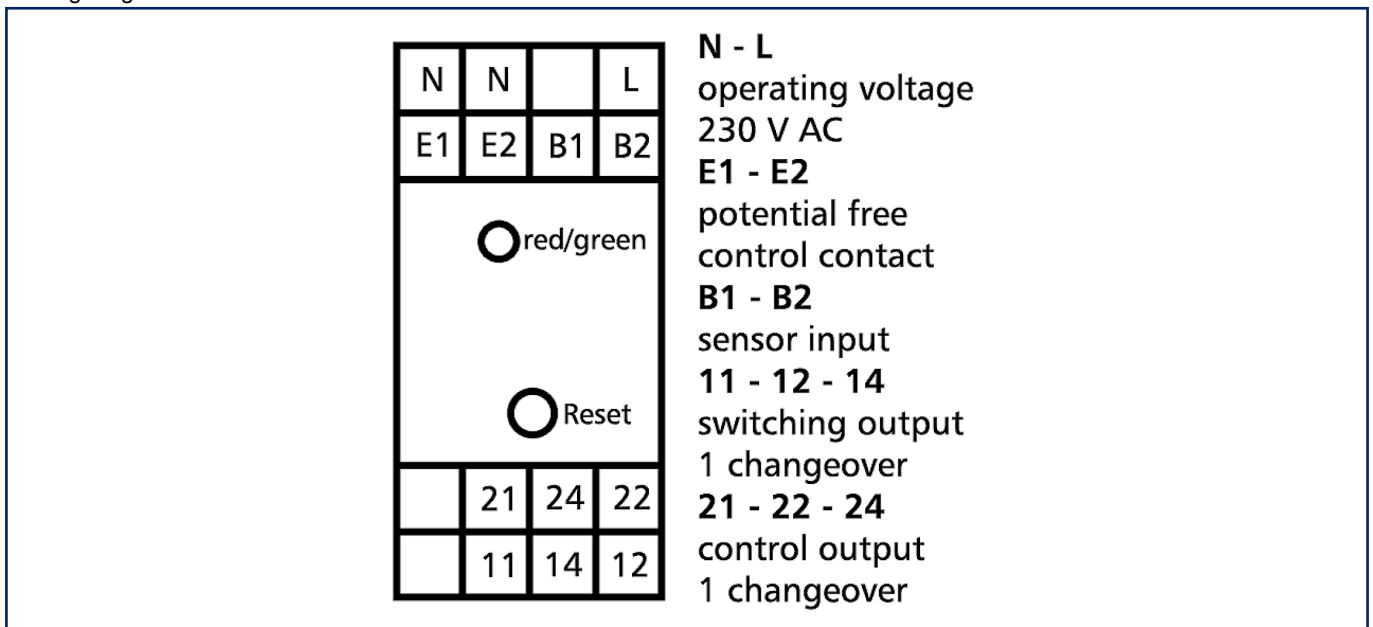
| P/N | Designation |
|--------|--------------------------------|
| 110146 | Mounting bracket HWR |
| 110149 | Two-wire Sensor (5 to 60 V DC) |
| 110151 | Mounting bracket HWF |

Illustrations

Dimensional drawing



Wiring diagram



Illustrations

Function diagram

